

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P643249

Luminaire Tested: ML5615LSVWFL759FS1E - 692H - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 692H - 1500LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

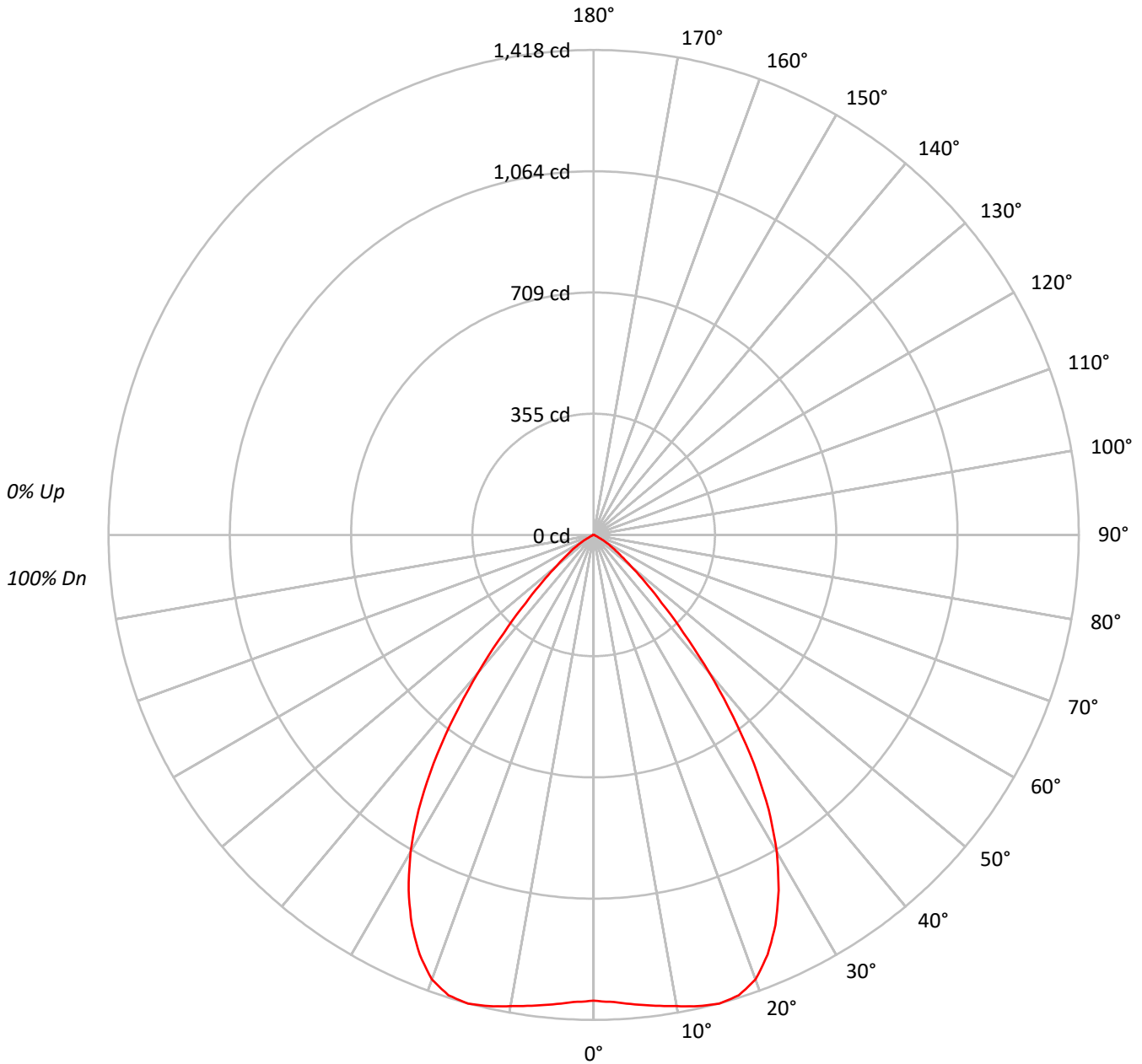
Lumens per Lamp: N/A  
Luminaire Lumens: 1918.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.08  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																											
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																											
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																											
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77																											
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70																											
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65																											
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																											
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55																											
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50																											
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																											
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																											

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	671983
5°	682425
10°	700936
15°	724547
20°	726240
25°	684726
30°	609870
35°	491541
40°	337939
45°	195996
50°	108457
55°	65374
60°	34833
65°	10273
70°	2597
75°	3431
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 195996 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	6.9
10°-20°	399.0	20.8
20°-30°	572.5	29.9
30°-40°	501.3	26.1
40°-50°	229.1	11.9
50°-60°	71.3	3.7
60°-70°	11.4	0.6
70°-80°	1.2	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1103.7	57.5
0°-40°	1605.0	83.7
0°-60°	1905.4	99.3
0°-90°	1918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1362	
5°	1378	132
15°	1418	399
25°	1258	573
35°	816	501
45°	281	229
55°	76	71
65°	9	11
75°	2	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1362.0
2.5°	1367.3
5°	1377.9
7.5°	1388.5
10°	1399.1
12.5°	1411.4
15°	1418.5
17.5°	1411.4
20°	1383.2
22.5°	1328.4
25°	1257.8
27.5°	1171.2
30°	1070.5
32.5°	952.1
35°	816.1
37.5°	669.5
40°	524.7
42.5°	388.6
45°	280.9
47.5°	201.4
50°	141.3
52.5°	102.5
55°	76.0
57.5°	54.8
60°	35.3
62.5°	15.9
65°	8.8
67.5°	3.5
70°	1.8
72.5°	1.8
75°	1.8
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)